



US005358973A

**United States Patent** [19]

Lindblad et al.

[11] **Patent Number:** 5,358,973[45] **Date of Patent:** Oct. 25, 1994

[54] **COMPOSITION AND METHOD FOR  
PREVENTION OF ADHESIONS BETWEEN  
BODY TISSUES**

[76] **Inventors:** **Gert Lindblad**, Gosselmansgatan 1,  
S-271 33 Ystad; **Peter Buckley**,  
Gläntvägen 5, S-752 56 Uppsala,  
both of Sweden

[21] **Appl. No.:** 982,854

[22] **Filed:** Nov. 30, 1992

**Related U.S. Application Data**

[62] Division of Ser. No. 585,064, Oct. 22, 1990, Pat. No. 5,190,759.

**[30] Foreign Application Priority Data**

Feb. 21, 1989 [SE] Sweden ..... 8900586

[51] **Int. Cl.<sup>5</sup>** ..... **A01N 25/04**; A01N 43/04;  
C07H 5/04; C08B 37/02

[52] **U.S. Cl.** ..... **514/777**; 514/54;  
514/59; 514/784; 536/55.1; 536/112; 424/423;  
424/426; 424/488

[58] **Field of Search** ..... 536/55.1, 112; 424/422,  
424/423, 426, 488; 514/54, 59, 777, 784

**[56] References Cited****U.S. PATENT DOCUMENTS**

4,840,626	6/1989	Linsky	604/364
4,886,787	12/1989	de Belder et al.	514/57
4,889,722	12/1989	Sheffield	424/450
4,911,926	3/1990	Henry	424/426
4,937,254	6/1990	Sheffield	514/420

*Primary Examiner*—Thurman K. Page

*Assistant Examiner*—Carlos Azpuru

*Attorney, Agent, or Firm*—Fred Philpitt

**[57] ABSTRACT**

A composition for use in surgical operations to prevent adhesions between tissue surfaces, comprising an aqueous solution containing dextran in an amount of 7 to 20% and hyaluronic acid in an amount of 0.5 to 6%, the dextran having a weight average molecular weight within the range of 30,000 to 75,000 and the hyaluronic acid having a weight average molecular weight within the range 500,000 to 6,000,000.

**2 Claims, No Drawings**